

Clean Version of Proposed Amended Claims

Sub D1
1. An extruded polymeric article comprised of a polymeric matrix and polymeric particles which are substantially spherical, highly crosslinked, have a mean particle size of between 35 to 60 micrometers and have a particle size distribution between 10-110 micrometers wherein the article has:

a) a Haze number as determined by ASTM D103 of at least 90%,

b) an opacity as determined by ASTM D20805-80 of at least 10%,

c) a minimum surface roughness of 0.5 um to 30 um as measured using ASTM methods B46.11 B361.2 and Y14.36 and

d) a Total White Light Transmission of greater than 78.9 as determined by a Hunterlab colorimeter_D25 model using ASTM E1331 and ASTM E1163,

wherein said determinations are made using an 0.125 inch thick extruded sheet comprised of the polymeric matrix and polymeric particles.

Sub D1
12. A resin comprised of:

a) 20 - 90% by weight, matrix comprised of polymethyl methacrylate;

b) 5 - 50% by weight, modifiers; and

c) 5 - 60% by weight, highly crosslinked spherical polymeric particles comprised of 10- 50% by weight, styrene 90 - 50% by weight, methyl 0.1 - 2.5% by weight, crosslinking agent, wherein the polymeric particles have a mean particle size of 35-60 micrometers, and a particle size distribution of between 15-110 micrometers,

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wherein if the resin is extruded into a 0.125 inch thick sheet, the sheet has a Haze number as determined by ASTM D103 of at least 90%, an opacity as determined by ASTM D20805-80 of at least 10%, a minimum surface roughness of 0.5 um to 30 um as measured using ASTM methods B46.11 B361.2 and Y14.36 and a Total White Light Transmission of greater than 78.9 measured by a Hunterlab colorimeter_D25 model using ASTM E1331 and ASTM E1163.

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16. A resin comprised of:

a) 60 - 85% by weight, matrix comprised of polymethyl methacrylate; and

c) 15 - 40% by weight, highly crosslinked spherical polymeric particles comprised of:

15 - 35% by weight, styrene

65 - 85% by weight, methyl methacrylate 0.5-1.5% by weight, allyl methacrylate;

wherein the polymeric particles have a mean particle size of 25-55 micrometers, and a particle size distribution of between 15-110 micrometers, and

wherein if the resin is extruded into a 0.125 inch thick sheet, the sheet has a Haze number as determined by ASTM D103 of at least 90%, an opacity as determined by ASTM D20805-80 would be at least 10%, a minimum surface roughness of 0.5 um to 30 um as measured using ASTM methods B46.11 B361.2 and Y14.36 and a Total White Light Transmission of greater than 78.9 measured by a Hunterlab colorimeter_D25 model using ASTM E1331 and ASTM E1163.-

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17. A resin comprised of:

a) 20 - 90% by weight, matrix comprised of polymethyl methacrylate or alkyl methacrylate/alkyl acrylate copolymer;

b) 0 - 50% by weight, modifiers; and

c) 5 - 40% by weight, highly crosslinked spherical polymeric particles comprised of about 0-100% by weight, styrene, 0-100% by weight, alkyl methacrylate, 0-100% by weight, alkyl acrylate and crosslinking agent wherein the polymeric particles have a mean particle size of 25-55 micrometers, and a particle size distribution of between 15-110 micrometers, and wherein if the resin is extruded into a 0.125 inch thick sheet, the sheet has a Haze number as determined by ASTM D103 of at least 90%, an opacity as determined by ASTM D20805-80 would be at least 10%, a minimum surface roughness of 0.5 um to 30 um as measured using ASTM methods B46.11 B361.2 and Y14.36 and a Total White Light Transmission of greater than 78.9 measured by a Hunterlab colorimeter_D25 model using ASTM E1331 and ASTM E1163.
